

FORM PTO- (Rev. 7-83) AUG 21 2000 DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	Atty. Docket No. HARMSSEN 33-002	Application No. 09 554 835
	Applicant H. Proppert	
	Filing Date: July 5, 2000	Group: 1614

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
8	AL	WO 96/13271 A	05/1996	WO				
8	AM	WO 98/26787 A	06/1998	WO				
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

8	AR	Lodinova-Zadnikova, R., and Sonnenborn, U., "Effect of Preventive Administration of a Nonpathogenic <i>Escherichia coli</i> Strain on the Colonization of the Intestine with Microbial Pathogens in Newborn Infants" Biol Neonate 71:224-32 (1997)
8	AS	Blum et al., "Properties of <i>Escherichia coli</i> Strains of Serotype O6" Plasmid 23(4):234-36 (1995)
8	AI	Hoevertz, S., "Augmentation of Host Defence against Bacterial and Fungal Infections of Mice Pretreated with the Non-pathogenic <i>Escherichia coli</i> Strain Nissle 1917" Arzneim.-Forsch./Drug Res 47(1):703-96 (1997)

EXAMINER	DATE CONSIDERED
EXAMINER Initials: <i>[Signature]</i> Reference considered: whether or not citation is in conformity with MPEP 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 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Patent and Trademark OfficeApp. Docket No.
HARMSEN 33-12Application No.
09/884,438

LIST OF PRIOR ART CITED BY APPLICANT

Applicant
H. Proppert

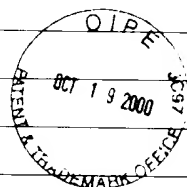
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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							YES	NO
S	AL	DE 196 37 936 A	04 1998	DE			Yes	
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

S	AR	Kruis, W., et al. "The Use of Probiotics in Human Medicine" Die Medizinische Welt, p. 53-56 (1996).
S	AS	Georg, K.J., and Schlörer, F., "Probiotic Treatment of a Pseudomembranous Colitis" Deutsche Medizinische Wochenschrift, 123(43) 1274-84 (1998)

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